

71. The laminated structure as set forth in claim 70 wherein at least one of said first neck-bonded laminate substrate and said second neck-bonded laminate substrate comprises a polyethylene layer sandwiched between two spunbond polypropylene layers.

72. The laminated structure as set forth in claim 70 wherein one or both of said first neck-bonded laminate substrate and said second neck-bonded laminate substrate comprises a material selected from the group consisting of a nonwoven material, a woven material, a film, an elasticized component, a cellulosic material, a thermoplastic material, a polypropylene spunbonded material, or combinations thereof.

Al 73. The laminated structure as set forth in claim 70 wherein said adhesive composition is in liquefied form.

74. The laminated structure as set forth in claim 70 wherein said adhesive composition is hot-melt processable at a temperature of about 450°F or less.

75. The laminated structure as set forth in claim 70 wherein the degree of crystallinity of said atactic polymer is less than about 15%.

76. The laminated structure as set forth in claim 70 wherein the degree of crystallinity of said isotactic polymer is at least about 60%.

77. The laminated structure as set forth in claim 70 wherein said adhesive composition comprises between about 50 and

about 90 weight percent of the atactic polymer and between about 5 and about 50 weight percent of the isotactic polymer.

78. The laminated structure as set forth in claim 70 wherein said atactic polymer is selected from the group consisting of low density polyethylene, atactic polystyrene, atactic polybutene, amorphous polyolefin copolymer and combinations thereof.

AI 79. The laminated structure as set forth in claim 70 wherein said atactic polymer comprises atactic polypropylene.

80. The laminated structure as set forth in claim 70 wherein said isotactic polymer is selected from the group consisting of high density polyethylene, isotactic polystyrene, isotactic polybutene and combinations thereof.

81. The laminated structure as set forth in claim 70 wherein said isotactic polymer comprises isotactic polypropylene.

82. The laminated structure as set forth in claim 70 wherein at least one of said first neck-bonded laminate substrate and said second neck-bonded laminate substrate is a stretch-bonded laminate composed of an elongated elastic web or elongated elastomeric strands bonded between two spunbonded layers.

83. A process for producing a laminated structure comprising a first neck-bonded laminate substrate and a second neck-bonded laminate substrate, the process comprising bonding together said first neck-bonded laminate substrate and said second neck-bonded laminate substrate with an adhesive

composition comprising an atactic polymer having a degree of crystallinity of less than about 20% and a number-average molecular weight of from about 1,000 to about 300,00 and an isotactic polymer having a degree of crystallinity of at least about 40% and a number-average molecular weight of from about 3,000 to about 200,000.

84. The process as set forth in claim 83 wherein at least one of said first necked-bonded laminate substrate and said second neck-bonded laminate substrate comprises a polyethylene layer sandwiched between two spunbond polypropylene layers.

Al 85. The process as set forth in claim 83 wherein one or both of said first neck-bonded laminate substrate and said second neck-bonded laminate substrate comprises a material selected from the group consisting of a nonwoven material, a woven material, a film, an elasticized component, cellulosic material, thermoplastic material, a polypropylene spunbonded material, or combinations thereof.

86. The process as set forth in claim 83 wherein said adhesive composition is in liquefied form.

87. The process as set forth in claim 83 wherein said adhesive composition is hot-melt processable at a temperature of about 450°F or less.

88. The process as set forth in claim 83 wherein the degree of crystallinity of said atactic polymer is less than about 15%.

89. The process as set forth in claim 83 wherein the degree of crystallinity of said isotactic polymer is at least about 60%.

90. The process as set forth in claim 83 wherein said adhesive composition comprises between about 50 and about 90 weight percent of the atactic polymer and between about 5 and about 50 weight percent of the isotactic polymer.

91. The process as set forth in claim 83 wherein said atactic polymer is selected from the group consisting of low density polyethylene, atactic polystyrene, atactic polybutene, amorphous polyolefin copolymer and combinations thereof.

92. The process as set forth in claim 83 wherein said atactic polymer comprises atactic polypropylene.

93. The process as set forth in claim 83 wherein said isotactic polymer is selected from the group consisting of high density polyethylene, isotactic polystyrene, isotactic polybutene and combinations thereof.

94. The process as set forth in claim 83 wherein said isotactic polymer comprises isotactic polypropylene.

95. The process as set forth in claim 83 wherein at least one of said first neck-bonded laminate substrate and said second neck-bonded laminate substrate is a stretch-bonded laminate composed of an elongated elastic web or elongated elastomeric strands bonded between two spunbonded layers.

96. A process for producing a necked-bonded laminate comprising the steps of:

a) providing a first necked-bonded substrate and a second necked-bonded substrate;

b) providing an atactic polymer having a degree of crystallinity of about 20% or less and a number-average molecular weight of from about 1,000 to about 300,000 and an isotactic polymer having a degree of crystallinity of at least 40% and a number-average molecular weight of from about 3,000 to about 200,000;

c) heating said atactic and isotactic polymers so that they are sufficiently liquefied for blending;

d) blending the heated atactic and isotactic polymers to form an adhesive composition that is melt-processable at a temperature of less than about 400°F;

e) applying said adhesive composition to said first substrate, said second substrate or both substrates; and

f) joining at least a portion of said first substrate to at least a portion of said second substrate so that said adhesive composition is positioned between said first and second substrates.

97. The process as set forth in claim 96 wherein at least one of said necked-bonded substrates comprises a polyethylene layer sandwiched between two polypropylene spunbonded layers.

98. The process as set forth in claim 96 wherein one or both of said first neck-bonded laminate substrate and said second necked-bonded substrate comprises a material selected from the group consisting of a nonwoven material, a woven material, a

film, an elasticized component, cellulosic material, thermoplastic material or combinations thereof.

99. The process as set forth in claim 96 wherein at least one of said first neck-bonded laminate substrate and said second neck-bonded laminate substrate comprises a spunbond polypropylene layer.

100. The process as set forth in claim 96 wherein the degree of crystallinity of said atactic polymer is less than about 15%.

Al 101. The process as set forth in claim 96 wherein the degree of crystallinity of said isotactic polymer is at least about 60%.

102. The process as set forth in claim 96 wherein said adhesive composition comprises between about 50 and about 90 weight percent of the atactic polymer and between about 5 and about 50 weight percent of the isotactic polymer.

103. The process as set forth in claim 96 wherein said atactic polymer is selected from the group consisting of low density polyethylene, atactic polystyrene, atactic polybutene, amorphous polyolefin copolymer and combinations thereof.

104. The process as set forth in claim 96 wherein said atactic polymer comprises atactic polypropylene.

105. The process as set forth in claim 96 wherein said isotactic polymer is selected from the group consisting of high

density polyethylene, isotactic polystyrene, isotactic polybutene and combinations thereof.

106. The process as set forth in claim 96 wherein said isotactic polymer comprises isotactic polypropylene.

Al 107. The process as set forth in claim 96 wherein at least one of said substrates is a stretch-bonded laminate composed of an elongated elastic web or elongated elastomeric strands bonded between two spunbonded layers.

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